



INSPECTORATE

QUALITY CERTIFICATE

Vessel	"Sample and Analysis"	Port	New Bedford, MA	Report	113607
Customer	Sprague Energy	Date	November 17, 2007	Reference	
Operation	Analysis	Terminal	Sprague New Bedford	Sample #	1416719

Name of material being tested
Description of sample source
Samples Drawn by (company)
Samples Tested by (company)

1.0% No 6 Fuel Oil

Shore Tank #3
Inspectorate
Inspectorate

Tests being Performed	Test method	Sample Results		
Gravity API @ 60F / Density	D - 4052	11.1	/	0.9923
Flash Point, PMCC, F	D - 93		>230	
Viscosity cSt @ 122F	D - 445		397.3	
Viscosity SSF @ 122F	D - 2161		187.5	
Pour Point C / F	D - 97		3 / 37	
Sulfur, Wt%	D - 4294		0.770	
Water and Sediment, Vol %	D - 1796		0.40	
Sediment by Extraction, Wt%	D - 473		0.04	
Water by Distillation, Vol%	D - 95		0.1	
Gross Heat of Combustion, BTU / lb	D - 240		18,378	
Gross Heat of Combustion, BTU / gal	D - 240		151,876	
Ash, wt %	D - 482		0.05	
Vanadium, ppm	D - 5863B		19	
Sodium, ppm	D - 5863B		37	
Nitrogen, wt%	D - 5762		0.417	
Ashphaltenes, wt%	IP - 143		0.79	
Conradson Carbon Residue	D - 189		11.42	
Aluminum, ppm	D - 5184		78	Linden
Silicon, ppm	D - 5184		102	Linden
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** Annotates Analysis Contracted Out

*** Annotates Loadport information- this test was not performed by Inspectorate